# TABLE OF NOR'IH AMERICAN KERMES, BASED ON ENTERNAL CHARACTERS. 

IY T. D. A. COCKERELL, MESILLA PARK, N. MEN.
Not entirely covered with wax, nor pubescent, nor covered with a white powder
Covered all over with dull white wax. (Arizona) . ceriferus Ehrhorn.
Covered with snow-white powder, except on the middle of the back. (Mass.) . . . . . . . . nivalis King \& Clill.
Small, thinly pubescent. (Kims., Mass.) . . . pubescens Boguc.

1. Convex, without a median longitudinal constriction

With a more or less distinct median longitudinal constriction . . 6
2. Large, with transverse sulci, the segments more or less gibbous, with three gibbosities (one median) in each transverse series. (Colo., N. M.) sillettei Ckll. Segments not alt all gibbous
3. Very large ( 10 mm . diam.), rather rough, marbled with brown and dull white, the white with brown spechs. (Mexico.) . . grandis Ckll. Not so large, species of the U. S.
4. Extremely convex, red brown with distinct dark fernginous transverse bands. (Mass.)
andrei King. Orange-brown, marbled with dull white, the white with fulvous points; younger individuals with a broken waxy coating. (Calif.) austini Ehrh. Larger than austimi, nearly globular, marbled with white, black and reddish, or black and reddish, covered with waxy secretion, which is divided into small portions separated by smooth (wax-frec) lines; the minute points on the white are intensely black. (Okla.) . . . . bog uei Clill. Pale ochreous, or reddish, with small black spots, and minute black points, usually distinctly variegated with irregular pale bands
5. Broader than long, the pale bands rmming in a transverse disection, parallel with the rows of black spots. (Blufton, S. C., etc.) salliformis Riley. Longer than broad, the pale bands running longitudinally, at right angles to the rows of spots. (Mass., Del.) . . . . Kingii Cllll.
6. Segmentation distinct, segments very strongly gibbous. (Calif.) cockerelli Ehrh.
Segmentation distinct, but segments not gibbous; surface not speckled with black. (Kansas.)
concinnulus Ckil. Segmentation not distinct, nor the segments gibbous; surface speckled with hlack or dark dots
7. Blak spots conspicurnas, aramged in tramsserse fows; black specks mot always conspicuous (N. Y.. Mass.; also collectecl hy Fletcher in Canada. un Qucrass mbra.) . . . . . . . pettiti Ehrla. Black spots minate, not definitely arranged in tanswerse rows; black specks very distinct; ground color pale ochreous. (Calif. Mexico.)
nisropunctertus Ehun. d Ckll.
I have taken as typical of galliformis a speeimen fiom the Riley collection. collected by J. II. Nellichamp at Blafton, S. C'. Riley - description shows that he also included $\mathbb{A}$. petliti mader the same name. Mr. (; B. King has collected peltiti in Manmichusetts

## THE SIPECIES OF THE OEDHPODINE GENUK HELASTUK゙ SAUSS., OCCURRING N 'TIIE LNITED STATES.

HY゙ SAMLEL, JI. SCUDBER, CAMBRIDGE, MASS.

Iteliastus was founded by Situssume in 1SSt on some Mexican and Central American Oedipodinac. It wan first recognized as occurring in the ${ }^{\top} n i t e d$ States three years ago, when 1 referred to it two insects which had been described as species of Thrincus. Both of these species also occur in Mexico, but were mbnown to Saussure. I can now add another and undescribed species, known to me from only a single locality in Califomia, and collected by Mr. A. P. Morse. All these northem species belong to Situssure's second division of the group in which the lower posterior angle of the lateral lobes is not produced into a distinct process. 'They are all of a light gray color, more or less irregularly spotted with brown, sometimes forming brief transverse makings when the insect is alighted; the wings are glazed, often iridescent, aud generally, at least in part, weakly tinted. The males are
considerally smaller than the females. The species may be separated as ful-lows:-

Table of our species of Meliastus.
$a^{2}$. Of large size. Antemare at least two thitds as long as hind femora; posterior process of metazona weakly obtusangulate, often almost rectangulate; descending lobes of pronotum apically well rommed, falling distinctly below the level of the pleural lobe antelior to them.
$b^{1}$. Largen. Descending lobes of pronotum angulato-rotundate below ; wings hyalino-citron basally, weakly infuscated apically . . aridus. $b^{2}$. Smaller. Descending lobes of pronotum regularly rotundate below : wings pellucid, or faintly violaceous, only the veins fuscous.
califormicus. $a^{2}$. Of small size. Antemme only half as long as hind femora; posterior pro-

